Granular Applicator Hose Routing

Granular Applicator Emitted Santing

Air System Installation to the Cultivator

Mount the Primary run quick coupler to the rear bar near the centre line of the cultivator. Mount the granular Divider Heads to the cultivator frame. Lay outs for specific machines are shown in the "Deflector and Secondary Head Locations" Section.

If the machine being set up is not one of the models shown on page 9-18 and 9-45 then use and illustration that closely resembles the unit and follow the general guidelines for hose routing.

 Measure and cut the 2 1/2" diameter primary hose to the required lenghts between the Quick Coupler and the Divider Heads. The OUTER HEADS should have the hose installed first, then the INNER HEAD. Finally measure and cut the primary hose to the required length between the Air Seeder and the Quick Coupler.

Run the Hoses between the Air Seeder and cultivator with sufficient sag to allow for sharp turns without the hoses stretching and pulling off the steel primary tubes. See photo below.

- 2. IMPORTANT: Make sure Divider Head outlets match with Metering Wheel size ie. 7 outlet head to 7 run metering wheel, etc.
- 3. Run hoses with a minimum amount of sag. Hoses should be straight as possible but not too tight. If there is more than one Divider Head on one side of the cultivator, tie primary hoses together with tie straps.

On long runs of primary hose it may be necessary to add additional supports to prevent excess sagging of the hose.

There are some basic rules that should be followed. These are listed below:

- Always cut the 2 1/2" diameter primary hose for the long runs first.
- Ensure that the 2 1/2" diameter primary hose from the divider runs as level as possible.
- Ensure that the secondary hoses 1" diameter do not run higher than 3" above the height of the divider head.
- Always ensure a 12" straight section of hose enters the deflector.
- · Avoid sharp bends in any of the hoses.
- Check for pinch points and clearances when folding in and out of transport.
- If long runs of primary hose are required, it may be necessary to add additional supports to prevent excessive sagging. (Use the same support that is used to support the flat fan divider)
- Quick coupler blank off plates are provided to blank off the entrance to the hoses when the Air Seeder is disconnected from the cultivator. These blank off plates should be stored in a place that is readily accessible.

Important: Check for hose interference with the Wing-Lift mechanism when unit is folded into transport. Hoses should not have any KINKS.

IMPORTANT

Hot water is the only acceptable lubricant for the installation of the 2 1/2" Black Coupler Hose.

WD-40 or any other lubricant (i.e. liquid detergent) will have a negative effect on the chemical stability of the hose, resulting in the degradation and failure of the hose due to Environmental Stress Cracking.

MORRIS Industries Ltd.

Hose Routing

Deflector Installation

Deflector spacing and height are very important.

These dimensions determine the accuracy of chemical spread pattern. The deflector spacing is given in the following pages for each model and size of cultivator that MORRIS currently markets.

All the cultivator shovels must sit on a level surface. The height of the deflectors must be set at the deflector spacing (s) plus the working depth (d). This distance, "D" = d + s is measured from the ground surface to the deflector plate.

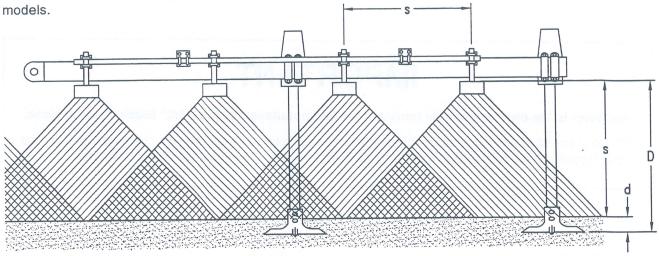
The deflectors must also be set square to the frame. If the deflectors are not set properly this will result in a poor product Spread-Uniformity.

To ensure the deflector is mounted correctly:

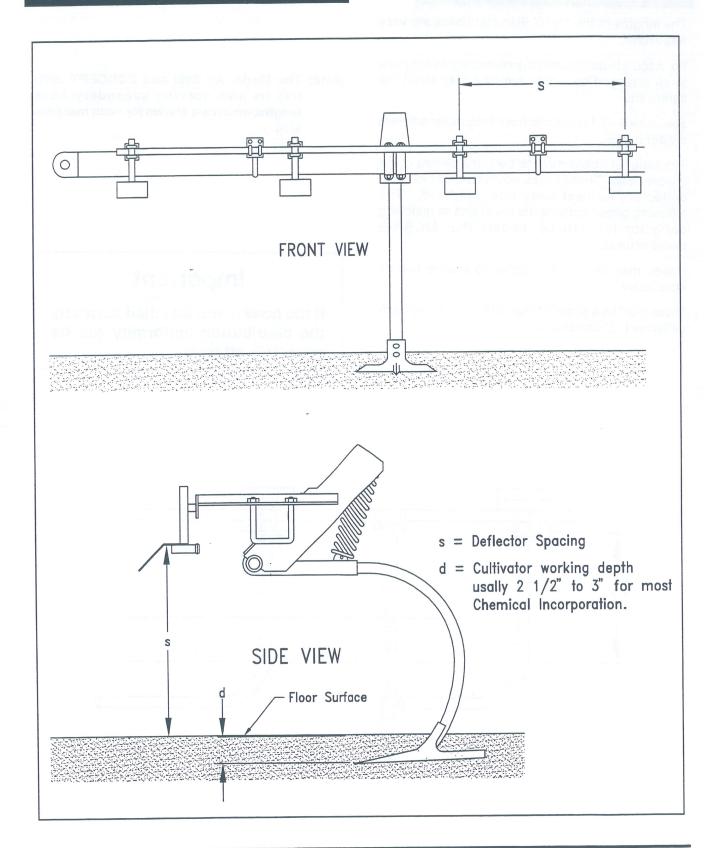
- 1. Determine the height of the deflector from the 3/4" mounting bar.
- 2. Cut 2 pieces of wood the identical size that matches the distance in step 1.
- 3. Place the two blocks of wood on the top of the deflector.
- 4. Push the deflector up so the blocks of wood contact the mounting bar.
- 5. Tighten the U-bolts holding the deflector to the mounting bar.

Use the following diagrams on page 9-18 to 9-45 as a guide to mount the deflectors for particular cultivator models.

Install the deflector mounting bracket to the front bar of the cultivator. the deflector mounting bracket *must* be mounted to the *top* of the front bar for all



Deflector Installation - Continued



MORRIS Industries Ltd.

Hose Routing

Secondary Hose Installation

The lengths of the 15/16" diameter hoses are **very important.**

For Accurate distribution the secondary hoses have to be arranged by length symmetrically about the centre line.

See page 9-17 for specific hose lengths for different divider heads.

The longest hoses have to be in the centre of the divider head. These hoses would normally feed the deflectors furthest away from the head. The following pages indicate the outlet and its matching deflector for various models that MORRIS manufactures.

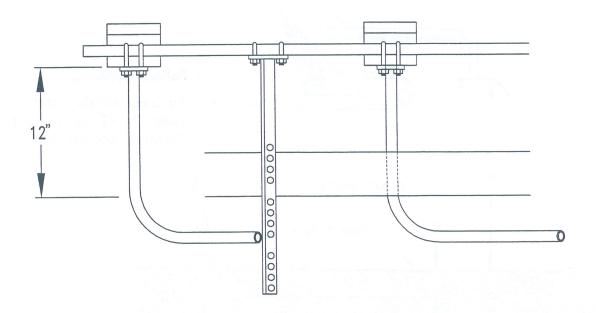
Hoses may have to be looped to ensure correct installation.

There must be a straight length of hose entering each deflector (12" preferred).

Note: The Maxim Air Drill and CONCEPT 2000 has its own specific secondary hose lengths which are shown for each machine size.

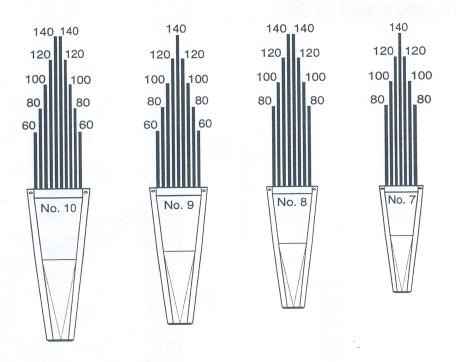
Important

If the hose is not installed correctly the distribution uniformity will be adversely affected.



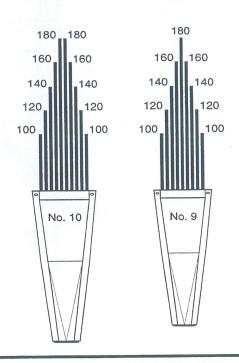
Hose Lengths - Magnum II, 8900, 9000 and Challenger II

Except Wing Frames of 55'-59' 8900 & 9000 Floating Hitch Cultivators.

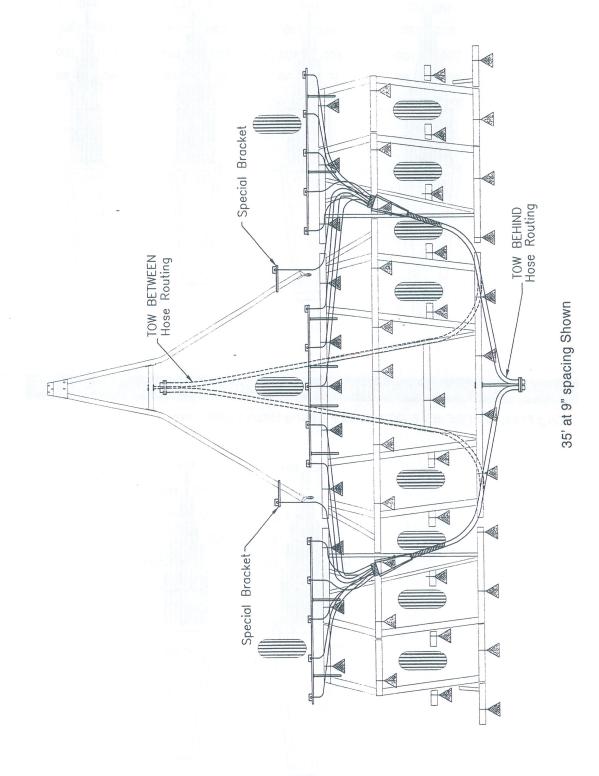


Secondary Hose lengths for 8900/9000 5 Frame Machines

Wing Frames of 55'-59' 8900 & 9000 Floating Hitch Cultivators.



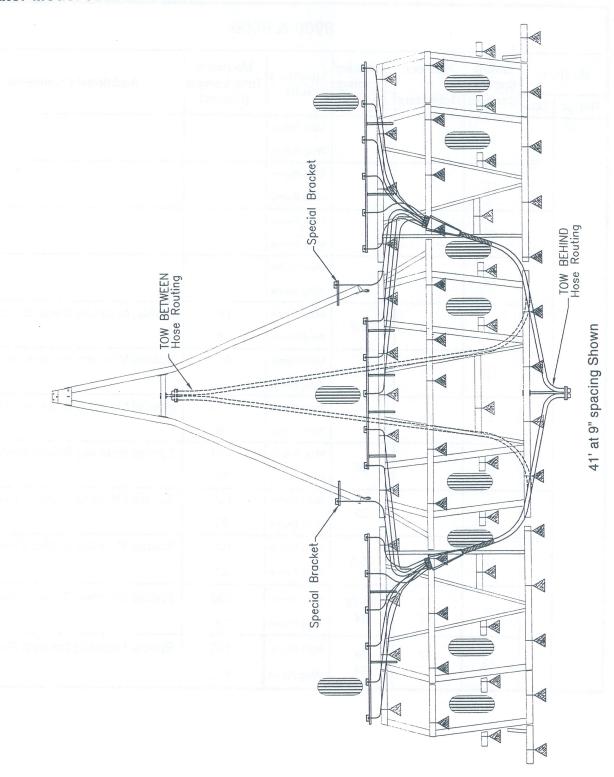
Cultivator Model 8900 & 9000 25'-35'



					8900 & 9	9000	
Mach	ine	Shank Spacing		Deflector Spacing	Mounting Tube	Tube Length	Additional Comments
Range	Size	(Inches)	Deflectors	(Inches)		(Inches)	
25-35		9	Control of the Contro	-	Main Frame Wing Frame	-	-,
	25				Main Frame	-	-
		12	-	-	Wing Frame	_	<u>.</u>
					Main Frame	_	
		9	-	-	Wing Frame	_	<u>-</u>
	27				Main Frame	_	-
		12	-	-	Wing Frame	_	<u>-</u>
					Main Frame	131	Special Mounting Brackets Required
		9	15	21.5	Wing Frame	68	
	29			22.5	Main Frame	94	Special Mounting Brackets Required
		12	15		Wing Frame	72	
		3		24	Main Frame	100	Special Mounting Brackets Required
		9	15		Wing Frame	76	
	31	4		0.4	Main Frame	100	Special Mounting Brackets Required
50 N		12	15	24	Wing Frame	76	
				0.5	Main Frame	106	Special Mounting Brackets Required
		9	15	25	Wing Frame	81	
	33			05.5	Main Frame	106	Special Mounting Brackets Required
		12	15	25.5	Wing Frame	81	
			17	22.75	Main Frame	100	Special Mounting Brackets Required
			9 24 24		Wing Frame	100	
	35		17	24	Main Frame	100	Special Mounting Brackets Required
		12	17	24	Wing Frame	100	

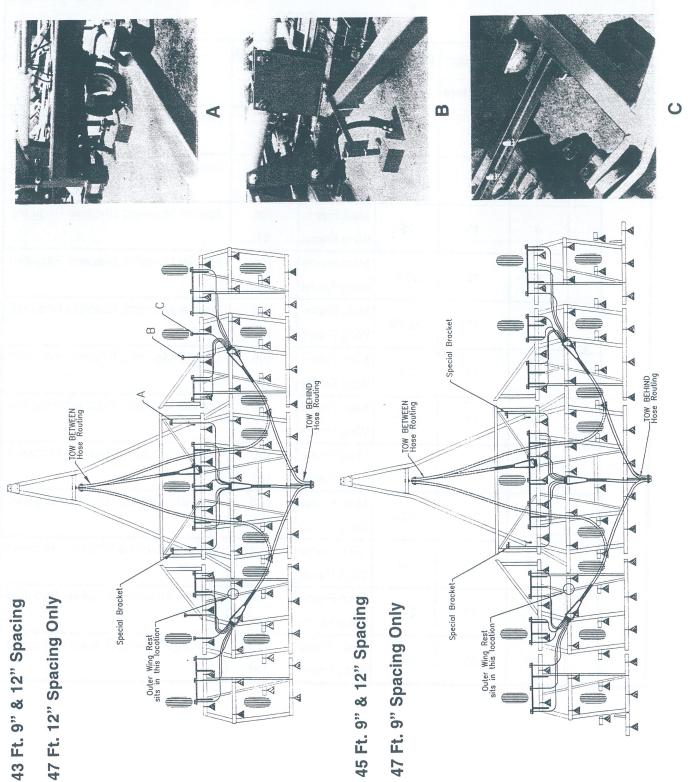
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Cultivator Model 8900 & 9000 31'-41'

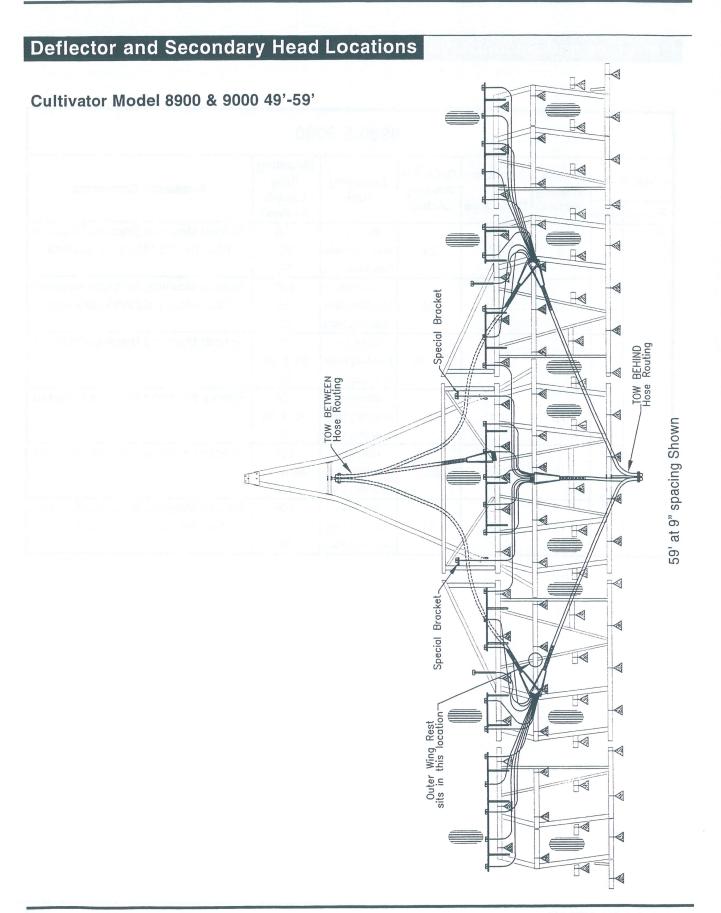


					8900 & 90	000		
Mach		Shank Spacing	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length	Additional Comments	
Range	Size	(inches)	(Inches)	Deflectors	(Interies)		(Inches)	O I I I I I I I I I I I I I I I I I I I
31-41		9	15	24	Main Frame	100	Special Mounting Brackets Required	
	31				Wing Frame	76		
		12	15	24	Main Frame	100	Special Mounting Brackets Required	
					Wing Frame	76		
		9 15	25	Main Frame	106	Special Mounting Brackets Required		
2	00	9	13	20	Wing Frame	81		
	33		12 15	25.5	Main Frame	106	Special Mounting Brackets Required	
		12	15	25.5	Wing Frame	81		
			47	00.75	Main Frame	100	Special Mounting Brackets Require	
		9	17	22.75	Wing Frame	100	E. C.	
	35	17	0.4	Main Frame	100	Special Mounting Brackets Require		
		12	17	24	Wing Frame	100		
				132	Main Frame	106	Special Mounting Brackets Require	
		9	17	24.75	Wing Frame	106		
	37			300	Main Frame	106	Special Mounting Brackets Require	
		12	17	25.5	Wing Frame	106		
					Main Frame	100	Special Mounting Brackets Require	
		9	19	23.5	Wing Frame	124		
	39				Main Frame	100	Special Mounting Brackets Require	
100 mg		12	19	24	Wing Frame	124		
					Main Frame	106	Special Mounting Brackets Require	
		9	19	24.5	Wing Frame	131		
	41			100	Main Frame	106	Special Mounting Brackets Require	
		12	19	25.5	Wing Frame	131		

Cultivator Model 8900 & 9000 43'-47'



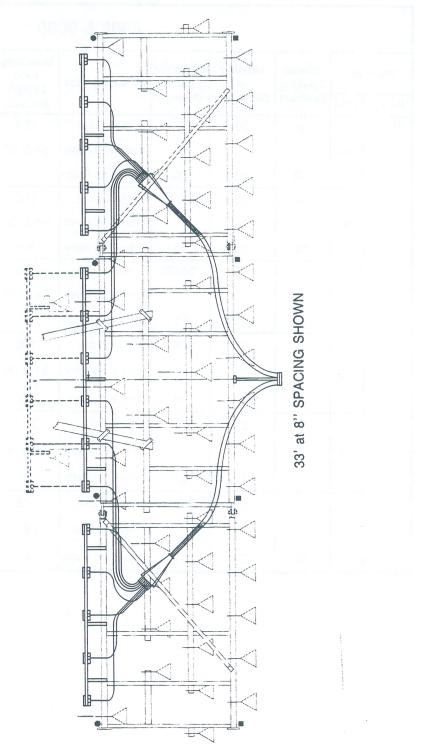
					8900 & 90	000	
Machine		Shank Spacing	Number of	Deflector Spacing	Mounting Tube	Mounting Tube Length	Additional Comments
Range	Size	(Inches)	Deflectors	(Inches)		(Inches)	
43-47					Main Frame	100	Special Mounting Brackets Required
		9	21	24	Inner Wing Frame	36	Plus Two (2) Mounting Brackets
43	40	3			Outer Wing Frame	52	
	43		21		Main Frame	100	Special Mounting Brackets Required
		12		24	Inner Wing Frame	36	Plus Two (2) Mounting Brackets
					Outer Wing Frame	52	
		9 21		24.75	Main Frame	104	Special Mounting Brackets Required
			21		Inner Wing Frame	36 & 36	
	45				Outer Wing Frame	54	
	45				Main Frame	104	Special Mounting Brackets Required
		12	21	25	Inner Wing Frame	36 & 36	
					Outer Wing Frame	54	
					Main Frame	106	Special Mounting Brackets Required
		9	21	25.5	Inner Wing Frame	36 & 36	
	47				Outer Wing Frame	55	
	47				Main Frame	106	Special Mounting Brackets Required
		12	23	24	Inner Wing Frame	36	Plus Two (2) Mounting Brackets
					Outer Wing Frame	76	



					8900 & 90	00	
Mach	Machine		Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length	Additional Comments
Range	Size	(Inches)	(inches)				
49-59		9	23	25	Main Frame	104	Special Mounting Brackets Required
	49				Inner Wing Frame	54 & 36	
		12	23	25	Outer Wing Frame	-	Use Single Bracket
		9	25	23.75	Main Frame	100	Special Mounting Brackets Required
	51				Inner Wing Frame	54 & 36	
		12	25	24	Outer Wing Frame	52	
		9	25	24.25	Main Frame	104	Special Mounting Brackets Required
	53				Inner Wing Frame	54 & 36	
		12	25	25	Outer Wing Frame	54	
		9	27	24	Main Frame	100	Special Mounting Brackets Required
	55			7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Inner Wing Frame	54 & 36	
		12	27	24	Outer Wing Frame	76	
2		9	27	24.5	Main Frame	104	Special Mounting Brackets Required
	57	69			Inner Wing Frame	54 & 36	
		12	27	25	Outer Wing Frame	79	
		9	27	25.25	Main Frame	105	Special Mounting Brackets Required
	59				Inner Wing Frame	55 & 36	
		12	29	24	Outer Wing Frame	100	

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Cultivator Model Challenger II

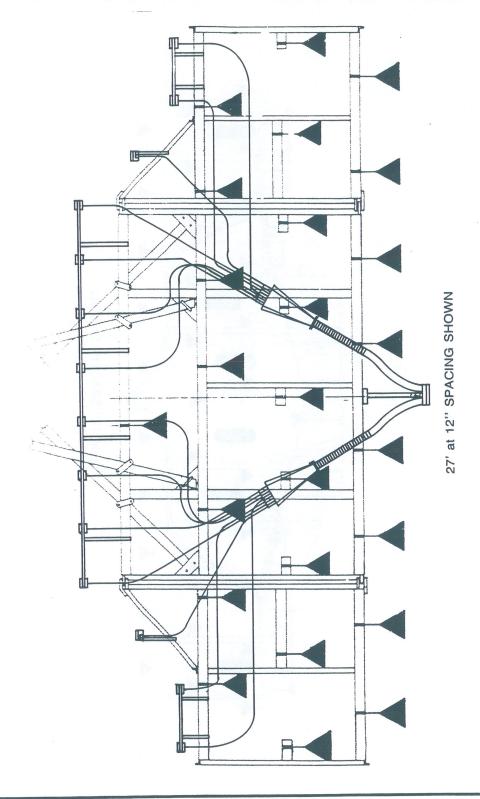


Machine		Shank Spacing	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length	Additional Comments	
Range	Size	(Inches)		(inches)	No.	(Inches)	THE PARTY OF THE P	
L-225					Main Frame	-	-	
	25	8	-		Wing Frame	-		
	- 85.	1000		201	Main Frame	127	•	
	29	8	14	24.5	Wing Frame	78	4 - 1 St 4 St	
	95			0.7	Main Frame	127	-	
	33	8	16	24.5	Wing Frame	102	-	
L-233		DE1 924		841	Main Frame	127	-	
	37	8	18	24.5	Wing Frame	127	<u> </u>	
		.2 8		04.5	Main Frame	176	-	
L-242	42		20	24.5	Wing Frame	29 & 78		

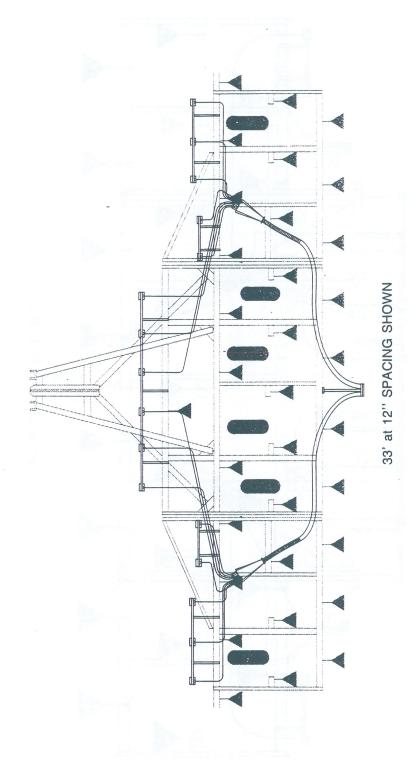
15

				Magnur	n I & II (Chisel Plov	V
Machine		Shank Spacing		Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
	Size	(Inches)	Deflectors	(inches)		(menes)	
CP-725	25	12	-	-	Main Frame Wing Frame	-	8 2 25
					Main Frame	162	See Page 29
	27	12	14	22.5	Wing Frame	28	Plus use 1 Single Bracket
			10 11	734	Main Frame	170	See Page 29
	29	12	14	24	Wing Frame	52	
					Main Frame	148	See Page 31
	31	12	15	24	Wing Frame	28	Plus use 1 Single Bracket
					Main Frame	124	See Page 30
	33	12	16	24	Wing Frame	28 & 52	
CP-731	10 (1 10 HAUS)				Main Frame	148	See Page 31
	35	35 12	17	24	Wing Frame	52	Plus use 1 Single Bracket
				24	Main Frame	124	See Page 30
	37	12	18		Wing Frame	28 & 78	
				00.5	Main Frame	28 & 78 & 28	See Page 32
	40	12	20	23.5	Wing Frame	28 & 78	
CP-740				0.4.5	Main Frame	28 & 78 & 28	See Page 32
	42	12	20	24.5	Wing Frame	28 & 78	
					Main Frame	170	See Page 33
CP-745	45	12	22	24	Inner Wing Frame	74	
J. 7.10					Outer Wing Frame	28	Plus use 1 Single Bracket
					Main Frame	28 & 78 & 28	See Page 33
CP-750	50	12 12	24 17	24 24	Inner Wing Frame	102	
					Outer Wing Frame	34	Plus use 1 Single Bracket

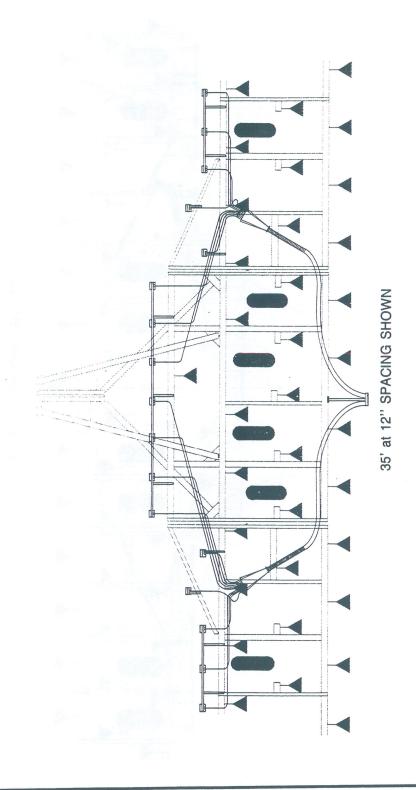
Chisel Plow Model CP-725 (27' & 29')



Chisel Plow Model CP-731 (33' & 37')



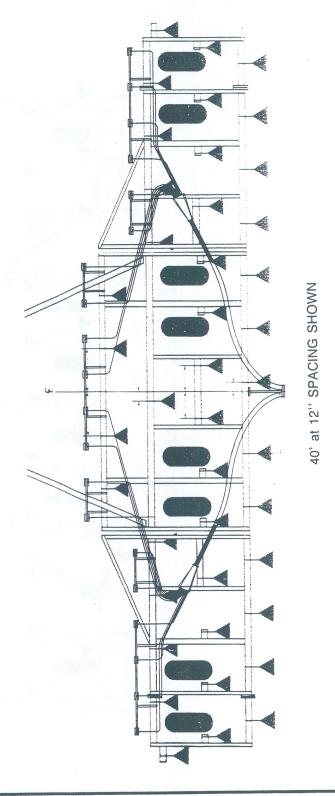
Chisel Plow Model CP-731 (31' & 35')



Hose Routing

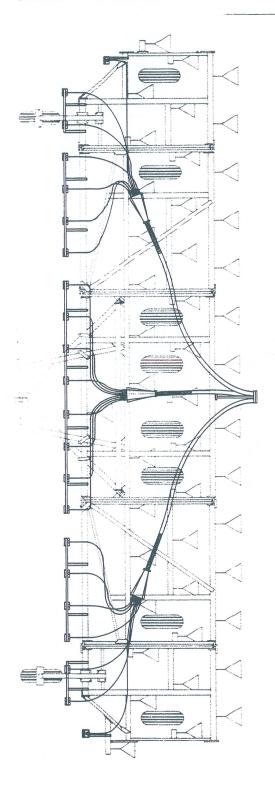
Deflector and Secondary Head Locations

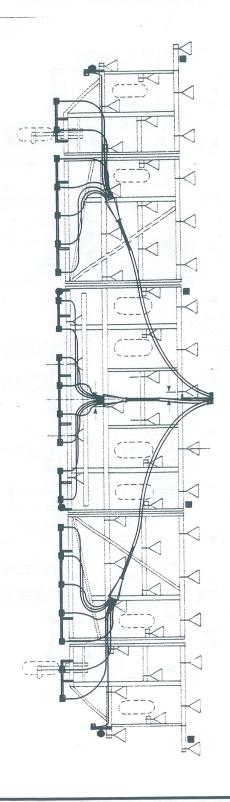
Chisel Plow Model CP-740 (40' & 42')



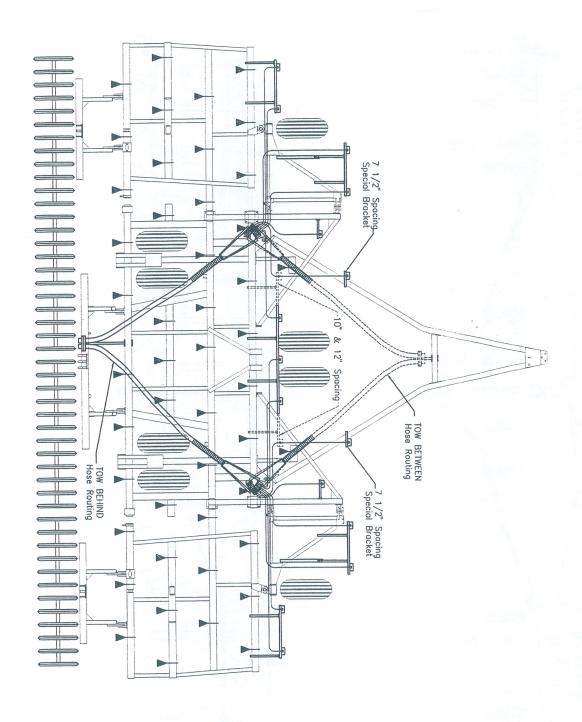
Chisel Plow Model CP-745

Chisel Plow Model CP-750

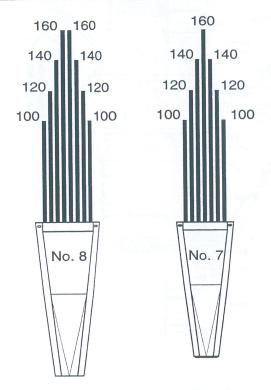




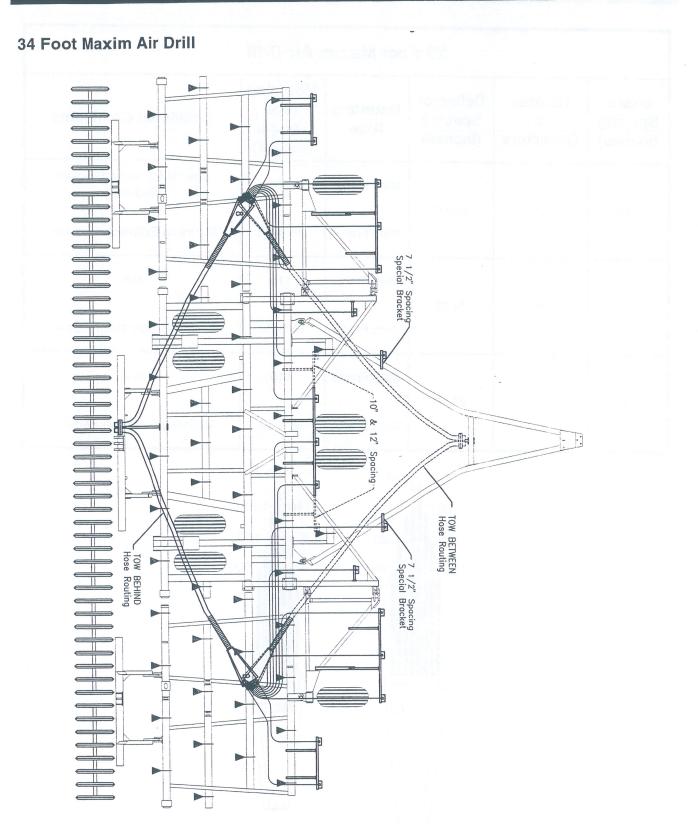
29 foot Maxim Air Drill



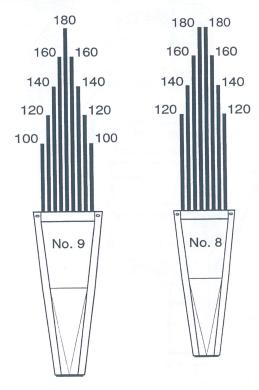
	29 Foot Maxim Air Drill								
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments				
7 1/2 15	23.50	Main Frame	60	Special Mounting Brackets Required					
			Wing Frame	36 & 36	Mounting Extention Required				
10	15	24.00	Main Frame	110	N/A				
.0			Wing Frame	36 & 36	Mounting Extention Required				
12	15	23.25	Main Frame	110	· N/A				
			Wing Frame	36 & 36	Mounting Extention Required				



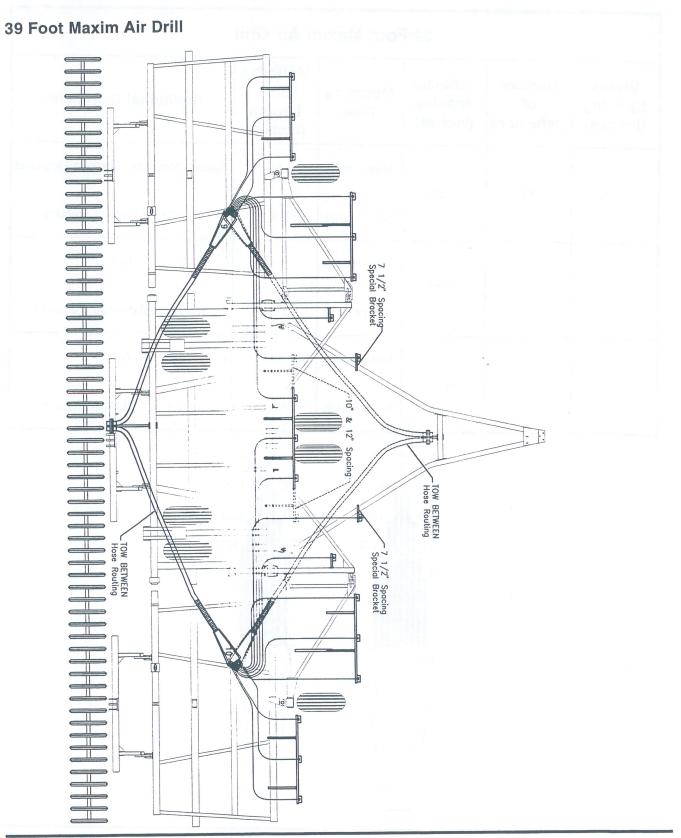
23



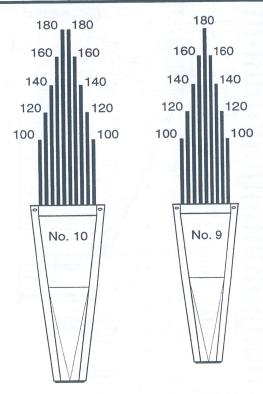
	34 Foot Maxim Air Drill									
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments					
7.1/0	7 1/2 17	24.25	Main Frame	60	Special Mounting Brackets Required					
7 172			Wing Frame	78 & 36	Mounting Extention Required					
10	17	24.75	Main Frame Wing Frame	110 78 & 36	N/A Mounting Extention Required					
12	17	24.75	Main Frame Wing Frame	110 78 & 36	N/A Mounting Extention Required					



25

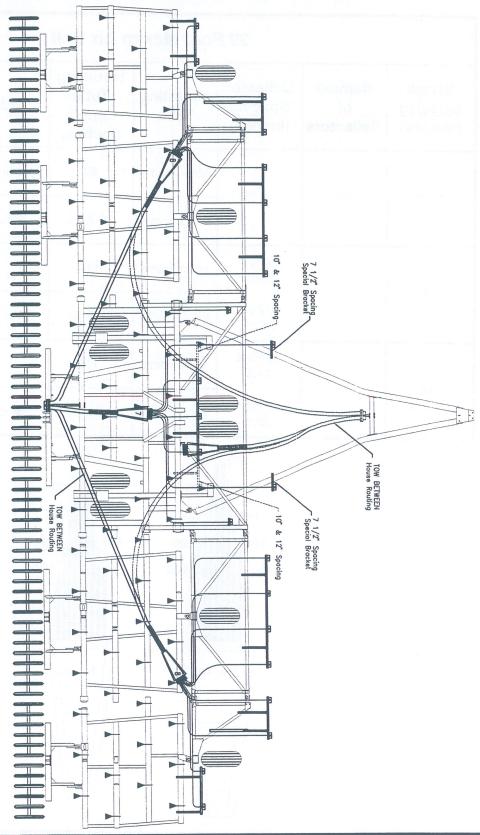


	39 Foot Maxim Air Drill									
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments					
7.1/0	19	24.75	Main Frame	60	Special Mounting Brackets Required					
7 1/2	19	19 24.73	Wing Frame	80 & 80	Mounting Extention Required					
	- 10	39 Foot 24.25	Main Frame	110	N/A					
10	19	40 Foot 25.25	Wing Frame	80 & 80	Mounting Extention Required					
	10	39 Foot 24.5	Main Frame	110	·- N/A					
12	19	41 Foot 25.5	Wing Frame	80 & 80	Mounting Extention Required					

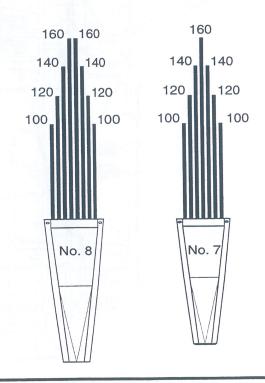


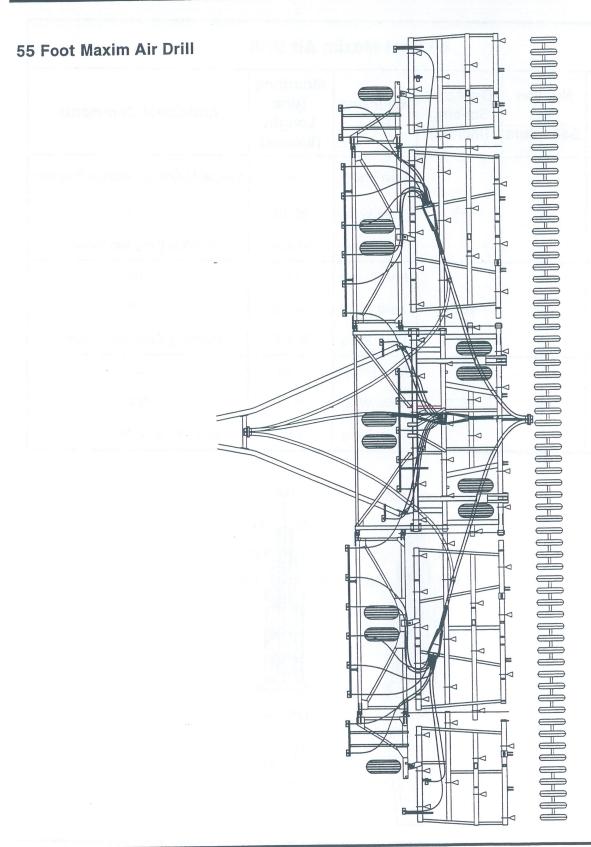
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49 Foot Maxim Air Drill



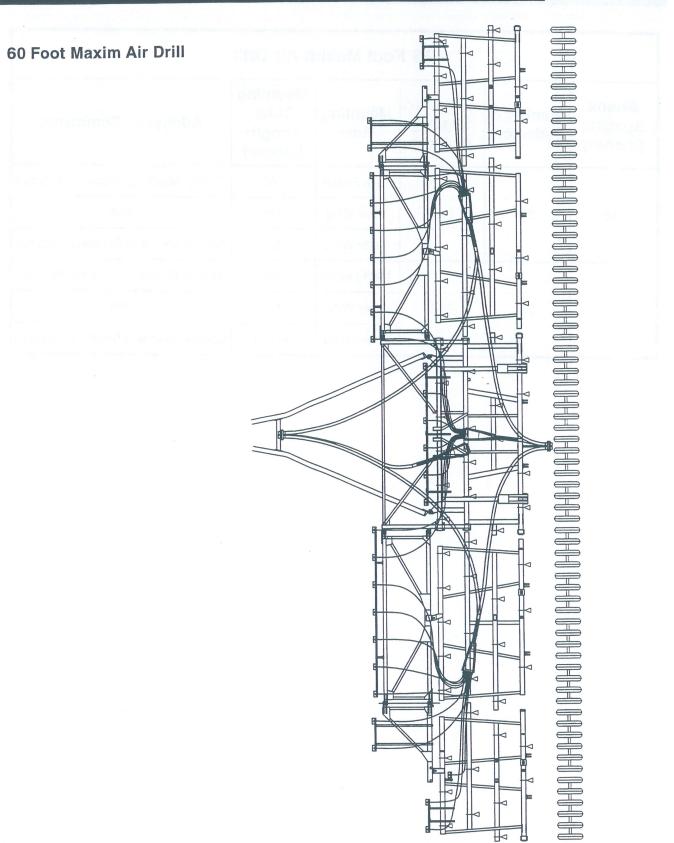
	49 Foot Maxim Air Drill									
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments					
			Main Frame	60	Special Mounting Brackets Required					
7 1/2	23	26	Inner Wing	86 1/2	N/A					
			Outer Wing	36 & 36	Mounting Extention Required					
		26.25	Main Frame	110	N/A					
10	23		Inner Wing	86 1/2	N/A					
			Outer Wing	36 & 36	Mounting Extention Required					
·	A Maria Carallando Maria Carallando Maria Carallando (Maria Carallando) Maria Carallando (Maria Carallando) Maria Carallando (Maria Carallando)	25.75	Main Frame	110	N/A					
12	23		Inner Wing	86 1/2	N/A					
			Outer Wing	36 & 36	Mounting Extention Required					





	55 Foot Maxim Air Drill								
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments				
	27	24.5	Main Frame	103	Special Mounting Brackets Required				
10			Inner Wing	128	N/A				
			Outer Wing	30	Special Mounting Brackets Required				
	27	24.5	Main Frame	103	Special Mounting Brackets Required				
12			Inner Wing	128	N/A				
			Outer Wing	30 & 9	Special Mounting Brackets Required				

31



	60 Foot Maxim Air Drill									
Shank Spacing (Inches)	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments					
	30	24	Main Frame	125	N/A					
10			Inner Wing	149	N/A					
			Outer Wing	29 & 29	Special Mounting Brackets Required					
		24.5	Main Frame	125	N/A					
12	30		Inner Wing	152	N/A					
			Outer Wing	29 & 29	Special Mounting Brackets Required					

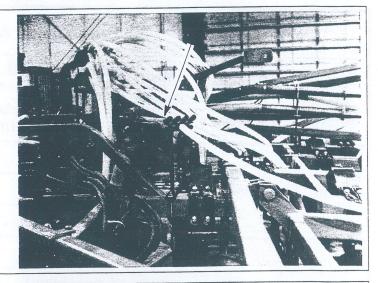
MORRIS Industries Ltd.

Hose Routing

Maxim Air Drill Deflector and Secondary Head Locations

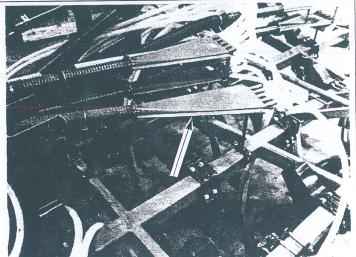
29 Foot

Mount Divider Head on main frame as shown. The head should be tight to the wing lift rest to clear transport tires when raised in field positon.



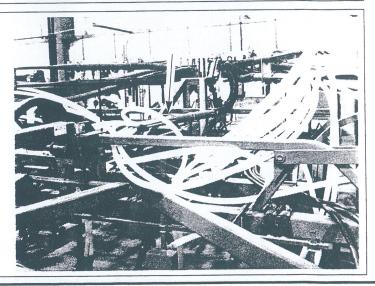
34 Foot and 39 Foot

Mount Divider Head on wing frame as shown.



49 Foot

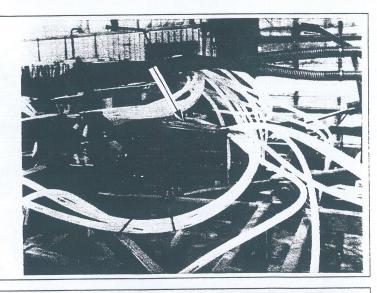
Mount the 7 outlet Divider Head on the main frame as shown.



Maxim Air Drill Deflector and Secondary Head Locations

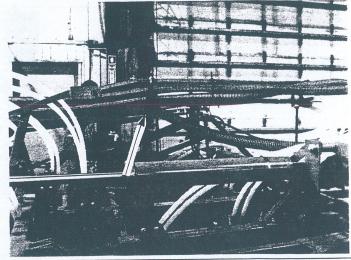
49 Foot

Mount the 8 outlet Divider Heads on the wing frames as shown. Care must be taken when routing the secondary lines to prevent kinking of the hoses.



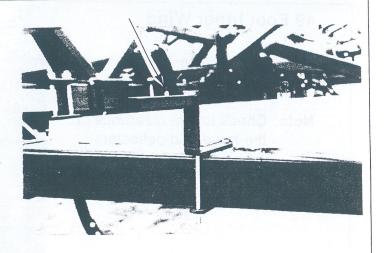
49 Foot

Secure the primary hose to the seed/fertilizer divider heads as shown.



Hitch Bracket

Used on 7 1/2" spacing only. Mount to hitch poles as shown.



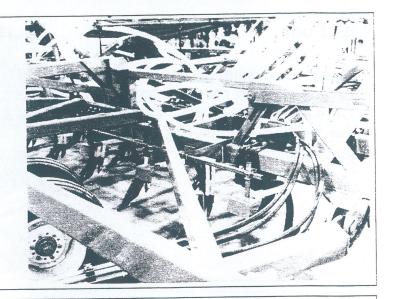
35

Maxim Air Drill Deflector and Secondary Head Locations

Main Frame All Models

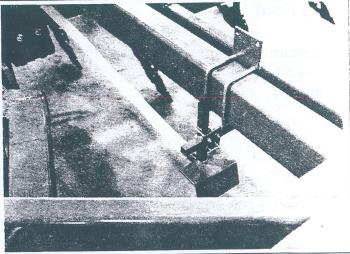
Mount the deflectors close to the frame as shown.

Note: 10" spacing shown. On 7 1/2" spacing the last deflector shown in photo will be mounted on the hitch pole as shown on page 12.



Main Frame All Models

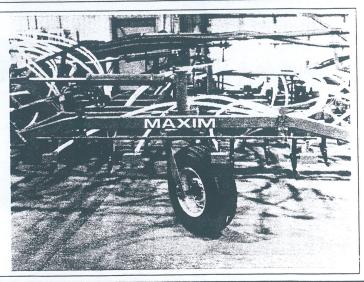
Mount the outer deflector to the main frame hitch truss as shown.



49 Foot Inner Wing

Mount the deflectors to the inner frame hitch truss as shown.

Note: Check for tire clearance of the hose and deflectors.



Maxim Air Drill Deflector and Secondary Head Locations

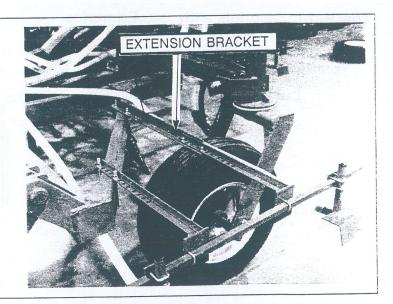
29 Foot, 34 Foot, and

39 Foot Wing Frame.

49 Foot Outer Wing.

Mount the deflectors to the wing frame hitch truss as shown, using mounting extension bracket.

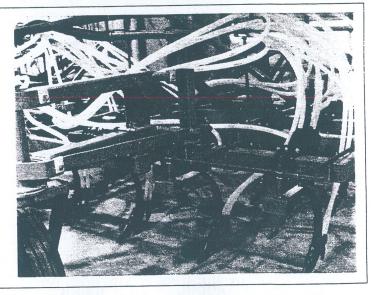
Note: Check for tire clearance of the hose and deflectors.



29 Foot, 34 Foot, and 39 Foot Wing Frame. 49 Foot Outer Wing.

Mount the deflectors close to the wing frame as shown.

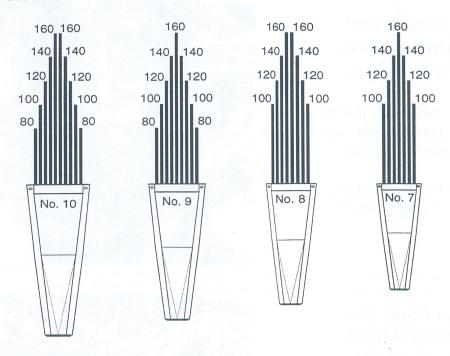
Note: Check for tire clearance of the deflectors.



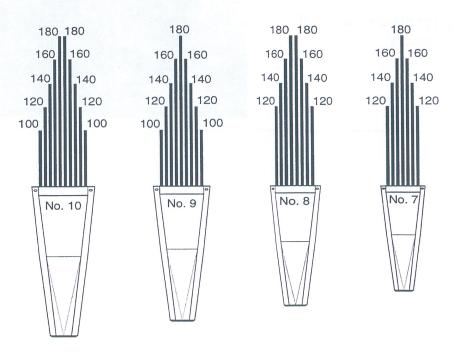
Hose Routing

Concept 2000 - Hose Lengths

Tow Behind Models with Two Primaries

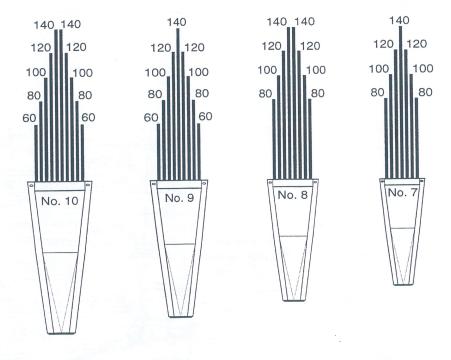


Tow Between Models with Two Primaries

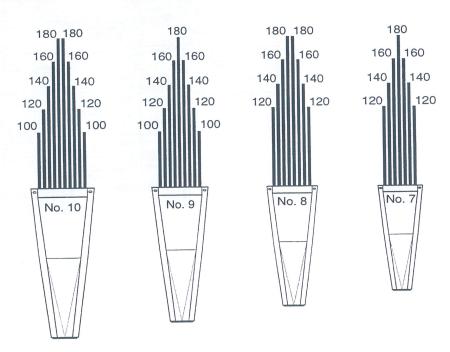


Concept 2000 - Hose Lengths

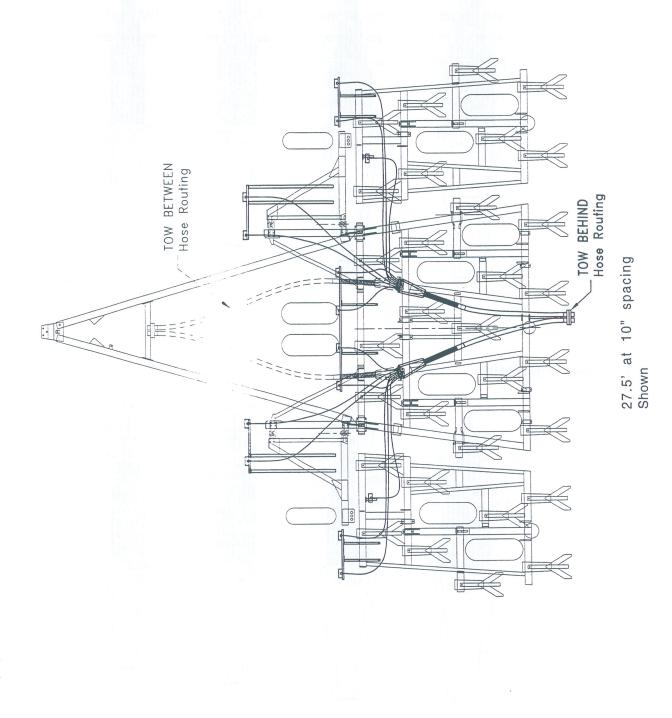
Three Frame Models with Three Primaries



Five Frame Models

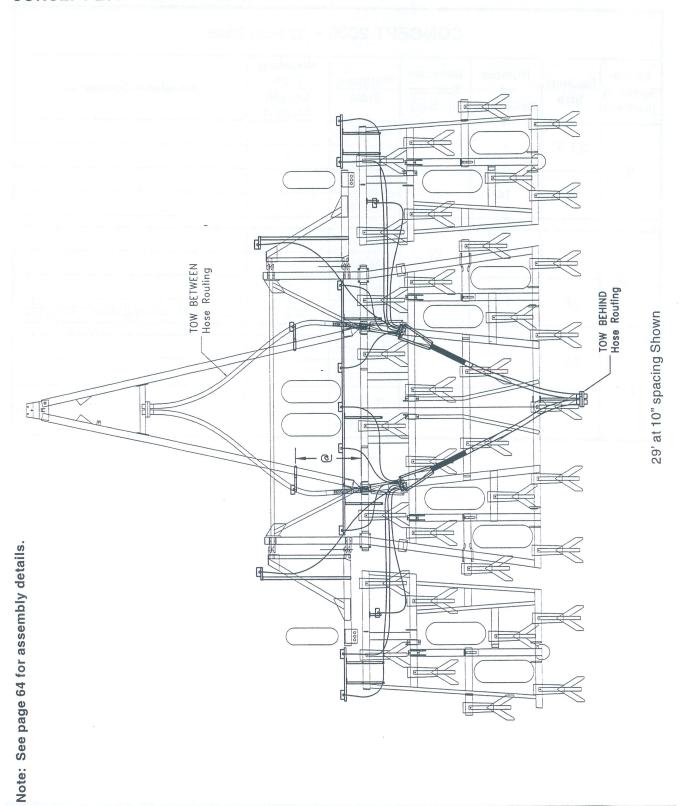


CONCEPT 2000 - 23 Foot Base



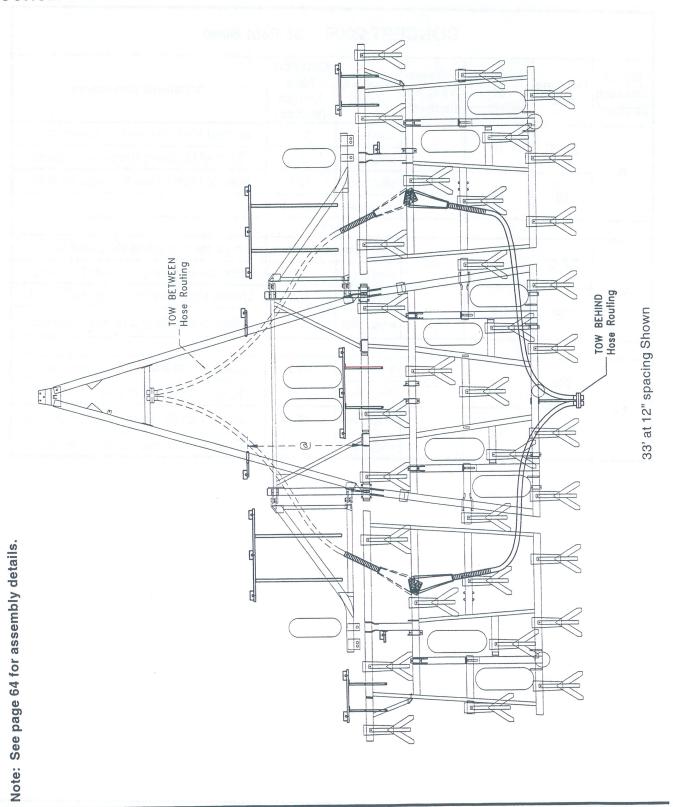
			CONCE	PT 2000	- 23 Foot	Base
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
	00.51			Main Frame	-	-
	23.5'		•	Wing Frame	-	-
9	25'	14	22	Main Frame	-	-
				Wing Frame	-	-
	24'	14	22	Main Frame		
				Wing Frame		-
10	26'	26' 14	23.25	Main Frame	71	-
				Wing Frame	32 & 27	Special Mounting Brackets Required
				Main Frame	-	-
	23'	-	-	Wing Frame	-	
12				Main Frame	-	•
	25'			Wing Frame	-	-

CONCEPT 2000 - 26 Foot Base



	CONCEPT 2000 - 26 Foot Base									
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments				
	00.51		00	Main Frame	115	Special Hitch Brackets Required @94"				
	26.5'	14	22	Wing Frame	28	Special Mounting Brackets Required				
9		14	23.5	Main Frame	123	Special Hitch Brackets Required @84"				
	28'			Wing Frame	52 & 8	- N				
	07.51		00	Main Frame	129	Special Hitch Brackets Required @87.25"				
	27.5'	14	23	Wing Frame	51	Special Mounting Brackets Required				
10	200		23	Main Frame	142	Special Hitch Brackets Required @37.5"				
	29'	15		Wing Frame	8 & 28	Special Mounting Brackets Required				
				Main Frame	115	Special Hitch Brackets Required @94"				
	26'	14	22	Wing Frame	27	Special Mounting Brackets Required				
12	001	14	23.75	Main Frame	124	Special Hitch Brackets Required @82.25"				
	28'	14	23.73	Wing Frame	29 & 8	Special Mounting Brackets Required				

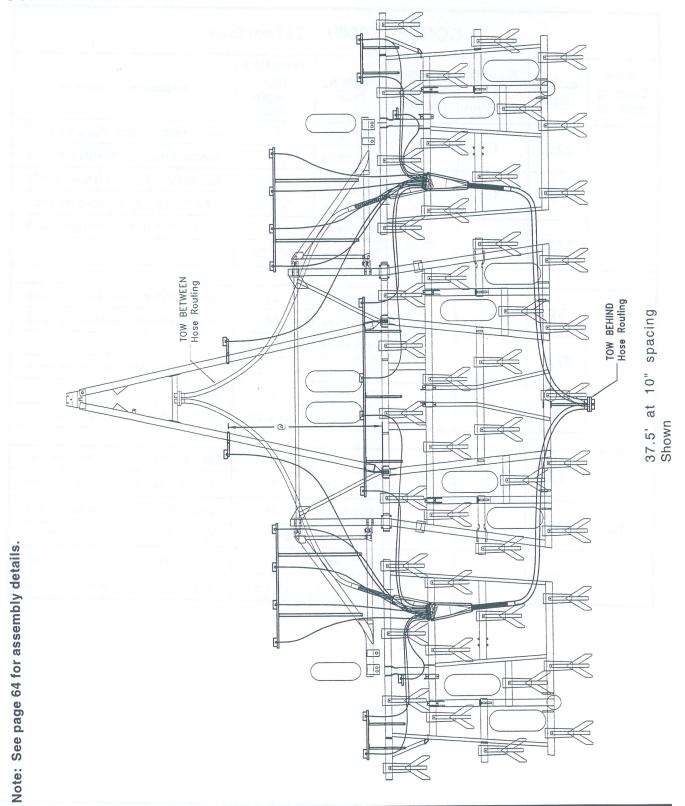
CONCEPT 2000 - 29 Foot Base



Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
			00	Main Frame	51	Special Hitch Brackets Required @66.5
	29.5'	15	23	Wing Frame	51	Special Mounting Brackets Required
			04.05	Main Frame	54	Special Hitch Brackets Required @58
9	31'	15	24.25	Wing Frame	54 & 9	Special Mounting Brackets Required
	32.5'		25.25	Main Frame	56	Special Hitch Brackets Required @51
		15		Wing Frame	56 & 30	-
				Main Frame	54	Special Hitch Brackets Required @56
	31'	15	24.5	Wing Frame	54	Special Mounting Brackets Required
				Main Frame	78	-
10	32.5'	16	24.25	Wing Frame	54 & 30	Special Mounting Brackets Required
	34'			Main Frame	80	•
		34' 1	16	25	Wing Frame	55 & 30
			100000000000000000000000000000000000000			
	001	15	22	Main Frame	51	Special Hitch Brackets Required @67
	29'	29' 15	23	Wing Frame	51	Special Mounting Brackets Required
		1' 15	24.5	Main Frame	54	Special Hitch Brackets Required @56
12	31'			Wing Frame	54 & 9	Special Mounting Brackets Required
				Main Frame	51	Special Hitch Brackets Required @66
	33'	33' 17	23	Wing Frame	28 & 51	Special Mounting Brackets Required

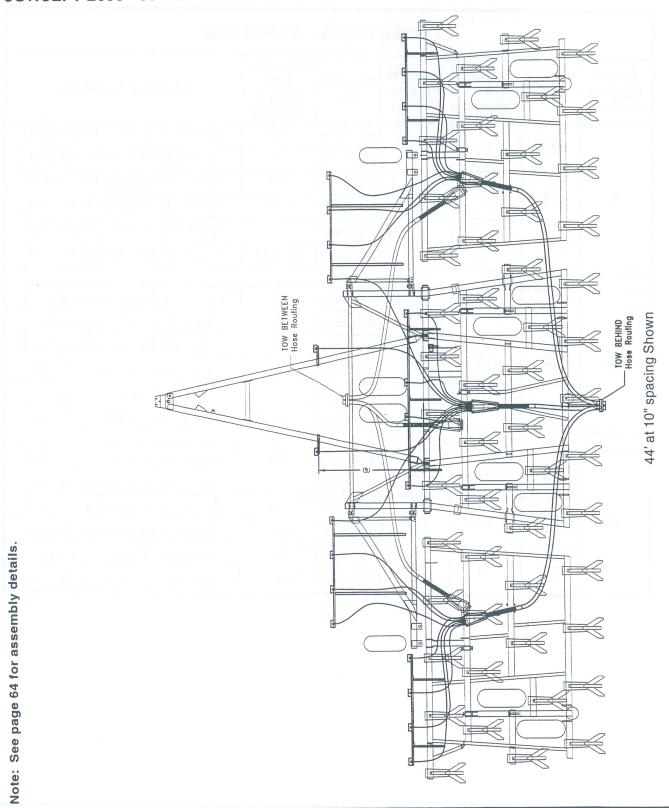
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CONCEPT 2000 - 32 Foot Base

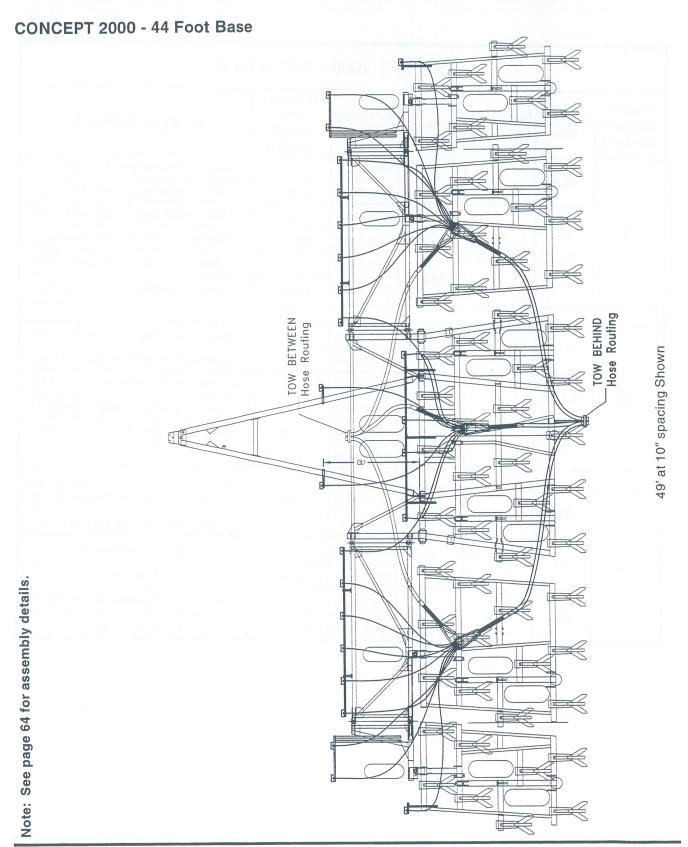


			CONCER	PT 2000	- 32 Foot	Base
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
	00 51	10	0.4	Main Frame	125	Special Hitch Brackets Required @81"
	32.5'	16	24	Wing Frame	53	Special Mounting Brackets Required
	0.41		00.5	Main Frame	146	Special Hitch Brackets Required @31"
9	34'	17	23.5	Wing Frame	52 & 9	Special Mounting Brackets Required
				Main Frame	57	Special Hitch Brackets Required @21"
	35.5'	17	24.5	Wing Frame	54 & 30	Special Mounting Brackets Required
	34'	17	24	Main Frame	60	Special Hitch Brackets Required @255
	34	17	24	Wing Frame	77	Special Mounting Brackets Required
4.0	36'	40	23.75	Main Frame	124	Special Hitch Brackets Required @82.5
10		18		Wing Frame	53 & 29	Special Mounting Brackets Required
		37.5' 20	22.25	Main Frame	116	Special Hitch Brackets Required @92"
	37.5			Wing Frame	72 & 28	Special Mounting Brackets Required
				Main Frame	140	Special Hitch Brackets Required @40"
	32'	32' 17	22.5	Wing Frame	50	Special Mounting Brackets Required
		34' 17	- 074	Main Frame	148	Special Hitch Brackets Required @28"
12	34'		23.75	Wing Frame	53 & 9	Special Mounting Brackets Required
		10	00.5	Main Frame	140	Special Hitch Brackets Required @40"
	36'	19	22.5	Wing Frame	50 & 28	Special Mounting Brackets Required

CONCEPT 2000 - 38 Foot Base

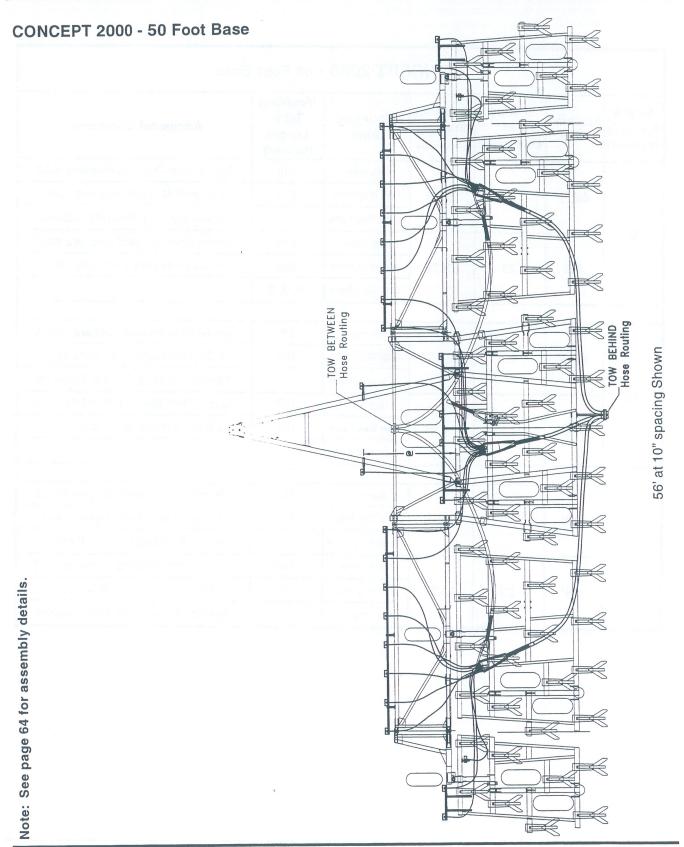


			CONCE	PT 2000	- 38 Foot I	Base	
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments	
	00.51	40	05.05	Main Frame	132	Special Hitch Brackets Required @72"	
	38.5'	18	25.25	Wing Frame	56 & 33	Special Mounting Brackets Required	
			00.5	Main Frame	123	Special Hitch Brackets Required @78"	
9	40'	20	23.5	Wing Frame	52 & 52	Special Mounting Brackets Required	
			23.25	Main Frame	145	Special Hitch Brackets Required @27'	
	41.5'	21		Wing Frame	52 & 52	Special Mounting Brackets Required	
				Main Frame	127	Special Hitch Brackets Required @73	
	41'	41' 20	24.25	Wing Frame	54 & 54	Special Mounting Brackets Required	
	42.5'		25.25	Main Frame	132	Special Hitch Brackets Required @66.5	
10		20		Wing Frame	56 & 56	Special Mounting Brackets Required	
				Main Frame	125	Special Hitch Brackets Required @75	
	44'	44' 22	22	24	Wing Frame	77 & 77	-
		Marine year of the second			1		
	0.01	10	00.75	Main Frame	148	Special Hitch Brackets Required @28	
	38.	38 ' 19	23.75	Wing Frame	53 & 30	Special Mounting Brackets Required	
	10:	40' 19	25	Main Frame	55	Special Hitch Brackets Required @11	
12	40'			Wing Frame	80 & 30	Special Mounting Brackets Required	
				Main Frame	148	Special Hitch Brackets Required @23	
	42'	21	23.75	Wing Frame	53 & 53	Special Mounting Brackets Required	



			CONC	EPT 2000	- 44 Foot I	Base
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
				Main Frame	142	Special Hitch Brackets Required @32"
	44.5'	23	22.75	Inner Wing Frame	119	2 Special Mounting Brackets used
				Outer Wing Frame	-	Special Mounting Brackets Required
9			23.75	Main Frame	148	Special Hitch Brackets Required @22"
	46'	23		Inner Wing Frame	100	2 Special Mounting Brackets used
				Outer Wing Frame	29 & 8	
				Main Frame	59	Special Hitch Brackets Required @1.5
	47.5'	23	24.5	Inner Wing Frame	152	2 Special Mounting Brackets used
				Outer Wing Frame	-	Special Mounting Brackets Required
10				Main Frame	127	Special Hitch Brackets Required @73"
	49'	24	24.25	Inner Wing Frame	127	2 Special Mounting Brackets used
				Outer Wing Frame	34 & 8	-
				Main Frame	142	Special Hitch Brackets Required @32"
	44'	23	22.75	Inner Wing Frame	119	2 Special Mounting Brackets used
				Outer Wing Frame	- "	Special Mounting Brackets Required
12				Main Frame	148	Special Hitch Brackets Required @22"
	46'	23	23.75	Inner Wing Frame	100	2 Special Mounting Brackets used
				Outer Wing Frame	8	Special Mounting Brackets Required

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			CONCE	EPT 2000 ·	- 50 Foot	Base
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Mounting Tube Length (Inches)	Additional Comments
				Main Frame	120	Special Hitch Brackets Required @81.5"
	50.5'	26	23	Inner Wing Frame	143	3 Special Mounting Brackets used
				Outer Wing Frame	14	Special Mounting Brackets Required
9			23.75	Main Frame	124	Special Hitch Brackets Required @75.5"
	52'	26		Inner Wing Frame	148	3 Special Mounting Brackets used
				Outer Wing Frame	29 & 9	• · · · · · · · · · · · · · · · · · · ·
				7 8 3		
				Main Frame	120	Special Hitch Brackets Required @81.5"
	54'	28	23	Inner Wing Frame	166	3 Special Mounting Brackets used
				Outer Wing Frame	30	<u>-</u>
10				- Main Frame	124	Special Hitch Brackets Required @76.5"
	56'	28	23.75	Inner Wing Frame	172	3 Special Mounting Brackets used
				Outer Wing Frame	29	Special Mounting Brackets Required
	1 2					
				Main Frame	120	Special Hitch Brackets Required @81.5"
	50'	26	23	Inner Wing Frame	143	3 Special Mounting Brackets used
4.5	100-00			Outer Wing Frame	14	Special Mounting Brackets Required
12				Main Frame	124	Special Hitch Brackets Required @75.5"
	52'	26	23.75	Inner Wing Frame	148	3 Special Mounting Brackets used
				Outer Wing Frame	29 & 9	-

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Concept 2000 Tillage Deflector and Secondary Head Locations CONCEPT 2000 - 56 Foot Base TOW BETWEEN Hose Routing spacing Note: See page 64 for assembly details.

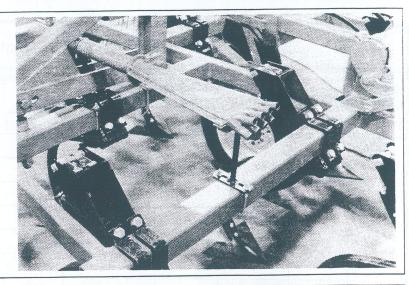
					Mounting	
Shank Spacing (Inches)	Machine Size	Number of Deflectors	Deflector Spacing (Inches)	Mounting Tube	Tube Length (Inches)	Additional Comments
				Main Frame	125	Special Hitch Brackets Required @75"
	56.5	28	24	Inner Wing Frame	149	3 Special Mounting Brackets used
				Outer Wing Frame	29	Special Mounting Brackets Required
				Main Frame	128	Special Hitch Brackets Required @77"
9	58'	28	24.5	Inner Wing Frame	152	3 Special Mounting Brackets used
				Outer Wing Frame	30 & 10	Special Mounting Brackets Required
				Main Frame	132	Special Hitch Brackets Required @66.5"
	59.5'	28	24.25	Inner Wing Frame	132	3 Special Mounting Brackets used
				Outer Wing Frame	30 & 30	Special Mounting Brackets Required
				Main Frame	127	Special Hitch Brackets Required @73"
	61'	30	24.25	Inner Wing Frame	151	3 Special Mounting Brackets used
				Outer Wing Frame	54	Special Mounting Brackets Required
				Main Frame	129	Special Hitch Brackets Required @70"
10	62.5'	30	24.75	Inner Wing Frame	154	3 Special Mounting Brackets used
				Outer Wing Frame	55 & 30	
				Main Frame	133	Special Hitch Brackets Required @64.75
	64'	30	25.5	Inner Wing Frame	158	3 Special Mounting Brackets used
				Outer Wing Frame	56 & 31	-
				Main Frame	124	Special Hitch Brackets Required @76.5"
	56'	28	23.75	Inner Wing Frame	148	3 Special Mounting Brackets used
				Outer Wing Frame	53 & 7	-
				Main Frame	129	Special Hitch Brackets Required @ 69.5
12	58'	28	24.75	Inner Wing Frame	154	3 Special Mounting Brackets used
				Outer Wing Frame	33 & 8	Special Mounting Brackets Required
				Main Frame	133	Special Hitch Brackets Required @ 64.5
Contraction of	60'	28	25.5	Inner Wing Frame	133	3 Special Mounting Brackets used
				Outer Wing Frame	56 & 31	-

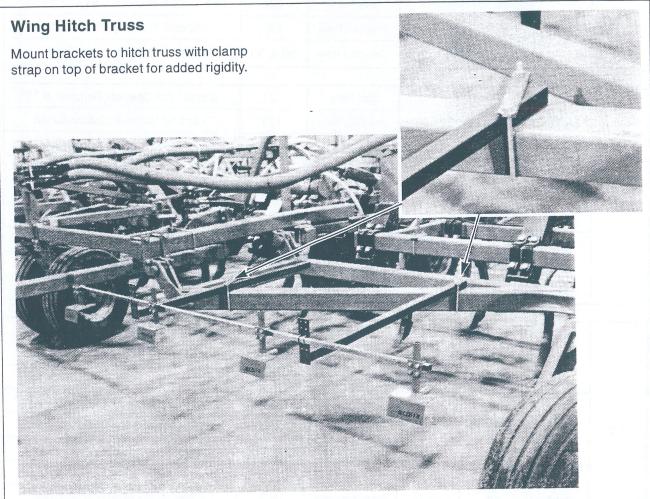
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Tow Behind Three Frames

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Trim 4" off stands. Mount Divider Head on wing frame through wing lift truss as shown.





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